
AFX

Client:

LumCAT: AUGW0612LAJMVNP

Luminaire: LED灯具

Report No:

Ballast type:

Test No: LCZP23120164

Voltage(V): 119.980

LampCAT:

Current(A): 0.205

Lamp flux(lm): 1855.2

Power (W): 24.490

Number of Lamps: 1

PF: 0.994

Length(mm): 115

Width(mm): 50

Phm Type: C

Height(mm): 280

Photometric Results

Lumens(lm): 1855.15, Efficiency(%): 100.00% , Luminous Efficacy(lm/W): 75.75

Central intensity(cd): 48.039, Maximum intensity(cd): 394.366

Angle of maximum intensity: C=75.0 γ =90.0

Beam Angle(50%Imax): [C0/180]Total=309.6

[C90/270]Total=178.7

Field angle(10%Imax): [C0/180]Total=348.0

[C90/270]Total=192.1

Maximum s/h(1/2): C0_180=2.78 C90_270=4.56

Maximum s/h(1/4): C0_180=2.78 C90_270=4.29

Up flux rate of lamp(%): 48.73%

Down flux rate of lamp(%): 51.27%

Up flux rate of LUM(%): 48.73%

Down flux rate of LUM(%): 51.27%

CIE Type : General diffuse lighting

Output flux ratio in π solid angle : 21.347%

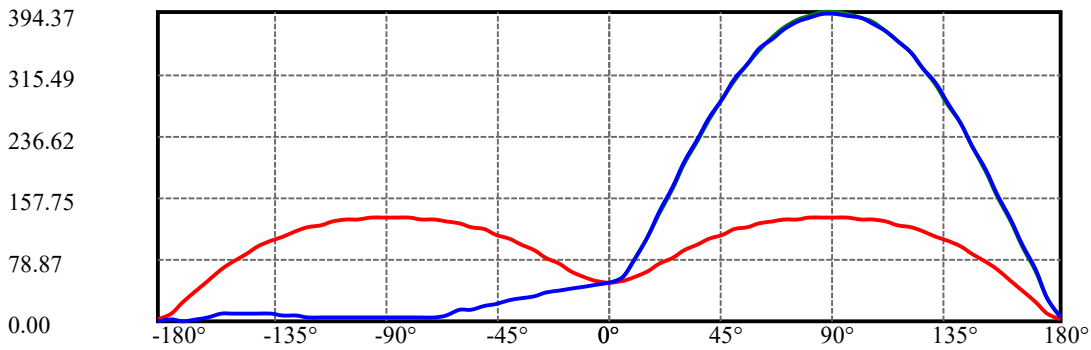
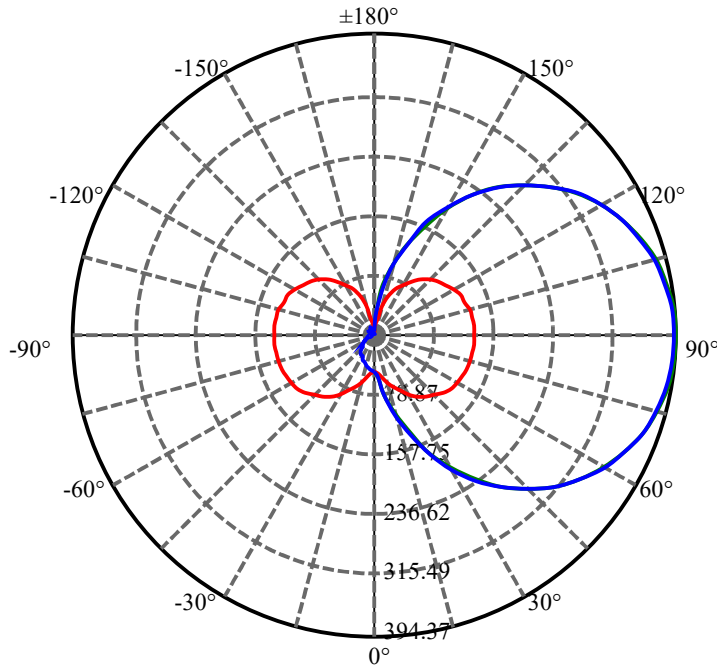
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	48.039	0.000	0	0.00%	0.00%
5.0	50.474	1.178	1.178	0.06%	0.06%
10.0	58.820	3.910	5.087	0.21%	0.27%
15.0	70.015	7.642	12.73	0.41%	0.69%
20.0	82.828	12.596	25.326	0.68%	1.37%
25.0	95.237	18.676	44.002	1.01%	2.37%
30.0	107.766	25.690	69.692	1.38%	3.76%
35.0	119.848	33.518	103.21	1.81%	5.56%
40.0	131.066	41.863	145.073	2.26%	7.82%
45.0	141.138	50.401	195.474	2.72%	10.54%
50.0	150.208	58.871	254.344	3.17%	13.71%
55.0	158.084	67.033	321.377	3.61%	17.32%
60.0	164.865	74.649	396.026	4.02%	21.35%
65.0	170.120	81.435	477.461	4.39%	25.74%
70.0	174.395	87.233	564.695	4.70%	30.44%
75.0	177.837	92.068	656.762	4.96%	35.40%
80.0	180.544	95.893	752.655	5.17%	40.57%
85.0	182.218	98.571	851.226	5.31%	45.88%
90.0	182.573	99.882	951.109	5.38%	51.27%
95.0	181.689	99.738	1050.846	5.38%	56.64%
100.0	179.676	98.192	1149.038	5.29%	61.94%
105.0	176.397	95.275	1244.313	5.14%	67.07%
110.0	172.143	91.103	1335.416	4.91%	71.98%
115.0	166.564	85.763	1421.179	4.62%	76.61%
120.0	159.686	79.312	1500.491	4.28%	80.88%
125.0	151.215	71.864	1572.355	3.87%	84.76%
130.0	141.670	63.683	1636.038	3.43%	88.19%
135.0	130.873	55.071	1691.109	2.97%	91.16%
140.0	119.089	46.282	1737.391	2.49%	93.65%
145.0	106.010	37.556	1774.947	2.02%	95.68%
150.0	92.120	29.176	1804.123	1.57%	97.25%
155.0	77.495	21.465	1825.588	1.16%	98.41%
160.0	61.917	14.622	1840.21	0.79%	99.19%
165.0	45.370	8.842	1849.052	0.48%	99.67%
170.0	29.006	4.412	1853.464	0.24%	99.91%
175.0	13.042	1.504	1854.968	0.08%	99.99%
180.0	2.400	0.185	1855.153	0.01%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	69.69	3.76%	3.76%
0-40	145.07	7.82%	7.82%
0-60	396.03	21.35%	21.35%
0-90	951.11	51.27%	51.27%
0-120	1500.49	80.88%	80.88%
0-180	1855.15	100.00%	100.00%
60-90	555.08	29.92%	29.92%
90-120	549.38	29.61%	29.61%
90-130	684.93	36.92%	36.92%
90-150	853.01	45.98%	45.98%
90-180	903.86	48.72%	48.72%
0-118.97	1484.12	80.00%	80.00%

ZONAL LUMEN SUMMARY

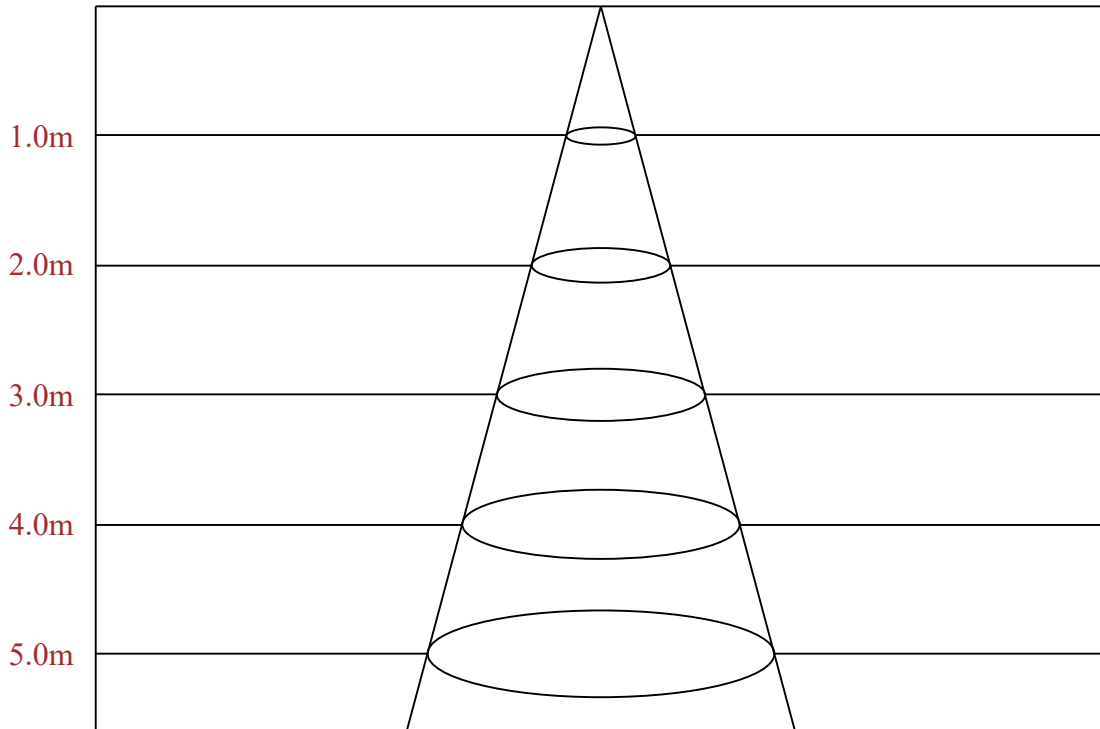
0-10	5.09
10-20	20.24
20-30	44.37
30-40	75.38
40-50	109.27
50-60	141.68
60-70	168.67
70-80	187.96
80-90	198.45
90-100	197.93
100-110	186.38
110-120	165.07
120-130	135.55
130-140	101.35
140-150	66.73
150-160	36.09
160-170	13.25
170-180	1.50



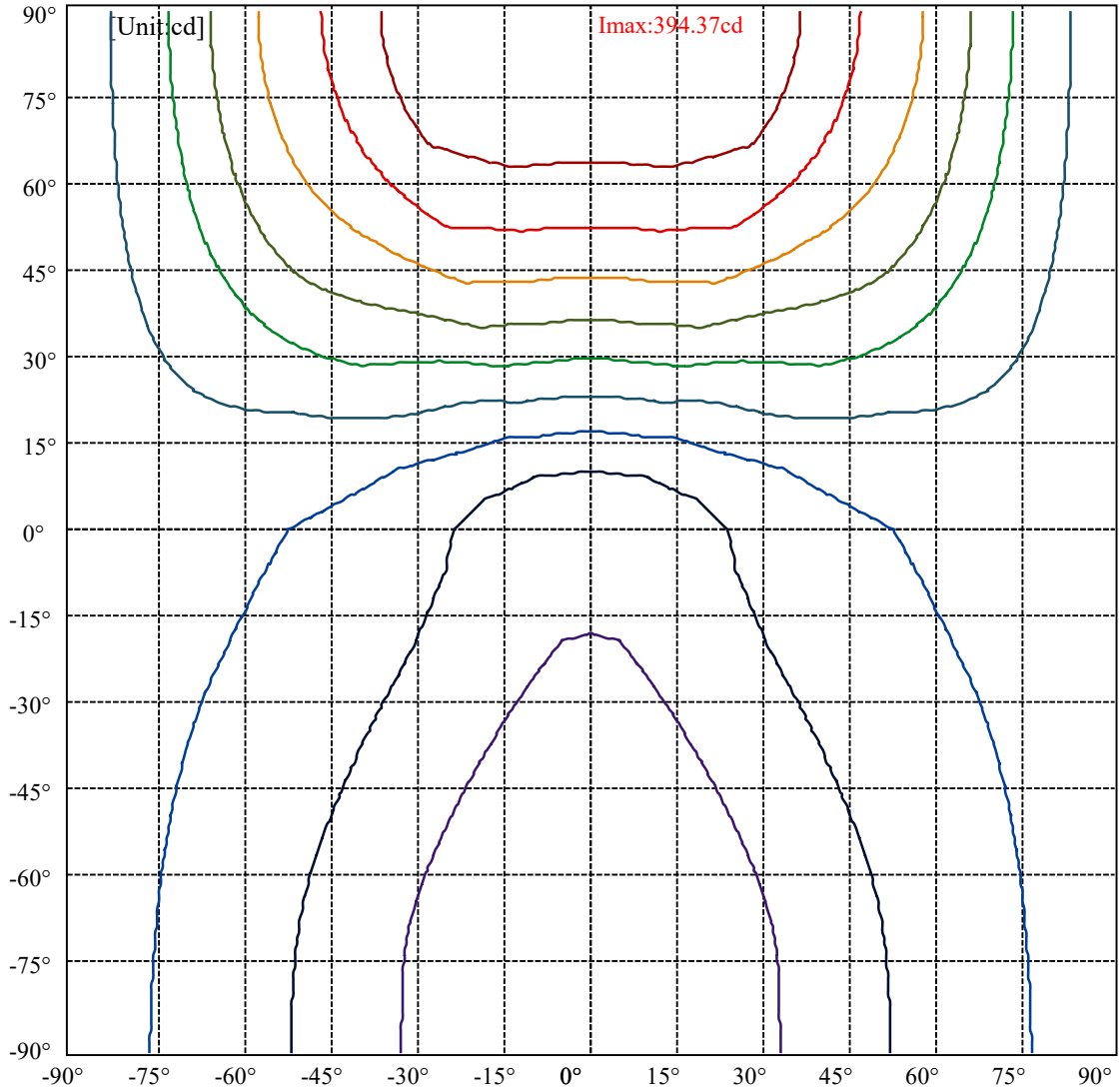
C75(Max): ———
 C0/C180: ———
 C90/C270: ———

Field angle(10%Imax):C0/180Left:174.0 Right:174.0
 :C90/270Left:18.4 Right:173.7

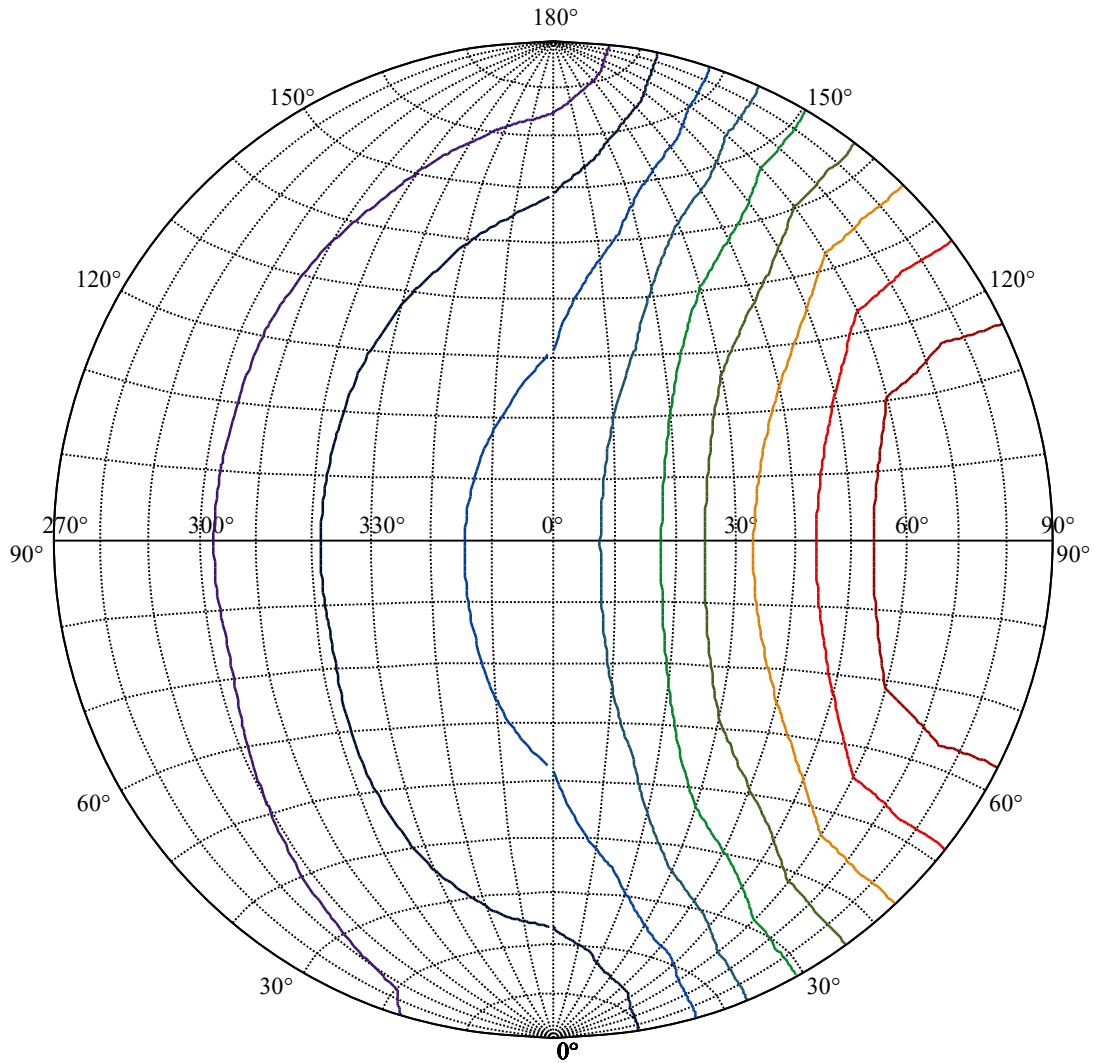
Beam Angle(50%Imax):C0/180Left:154.8 Right:154.8
 :C90/270Left:28.9 Right:149.8



Max , Ave Beam angle of C75 plane 221.35



(10%Imax) 39.4366	—
(20%Imax) 78.8732	—
(30%Imax) 118.31	—
(40%Imax) 157.746	—
(50%Imax) 197.183	—
(60%Imax) 236.62	—
(70%Imax) 276.056	—
(80%Imax) 315.493	—
(90%Imax) 354.929	—



House

[Unit:cd]

Road

I_{max}:394.37

(10%I_{max}) 39.4366

(20%I_{max}) 78.8732

(30%I_{max}) 118.31

(40%I_{max}) 157.746

(50%I_{max}) 197.183

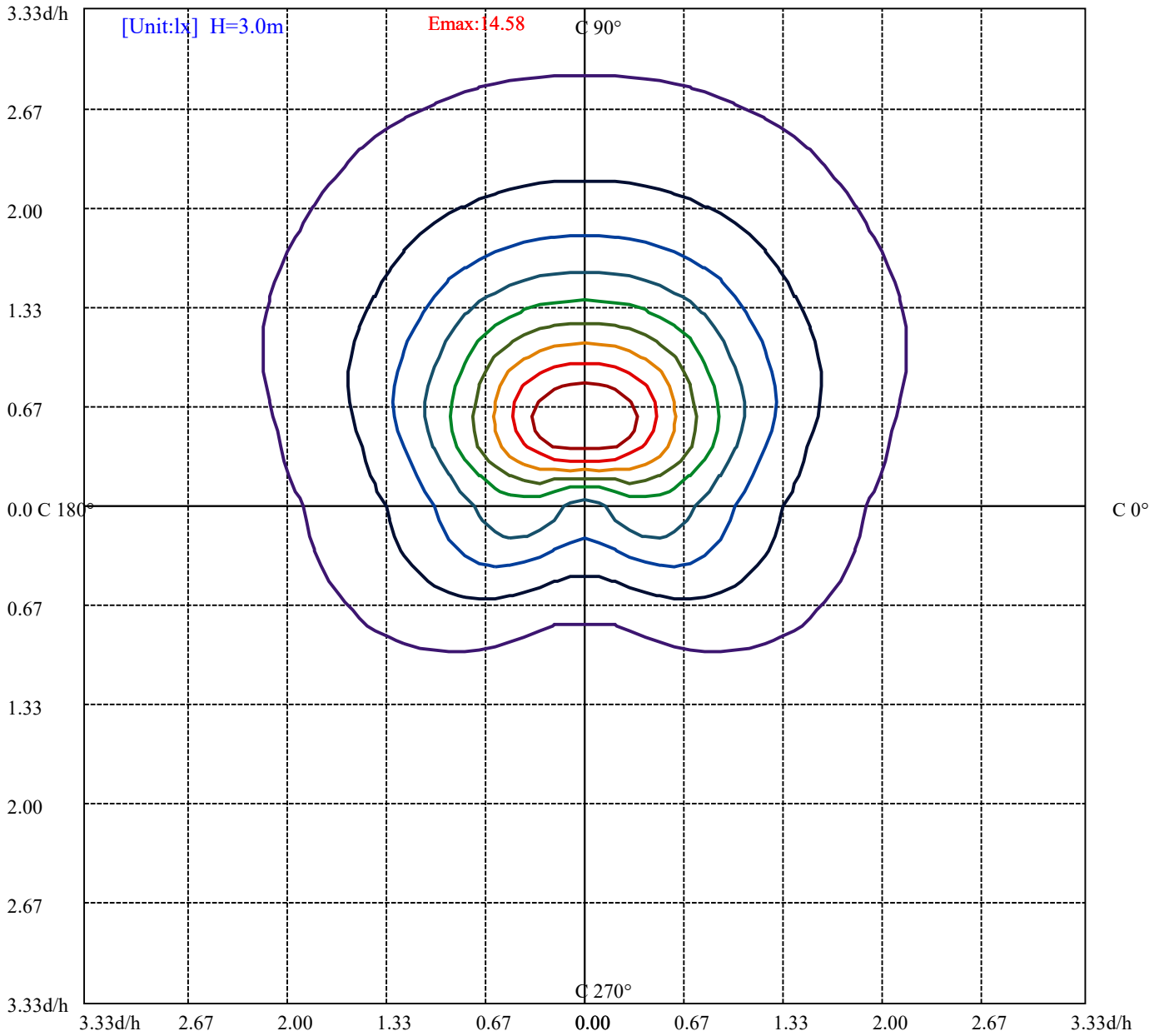
(60%I_{max}) 236.62

(70%I_{max}) 276.056

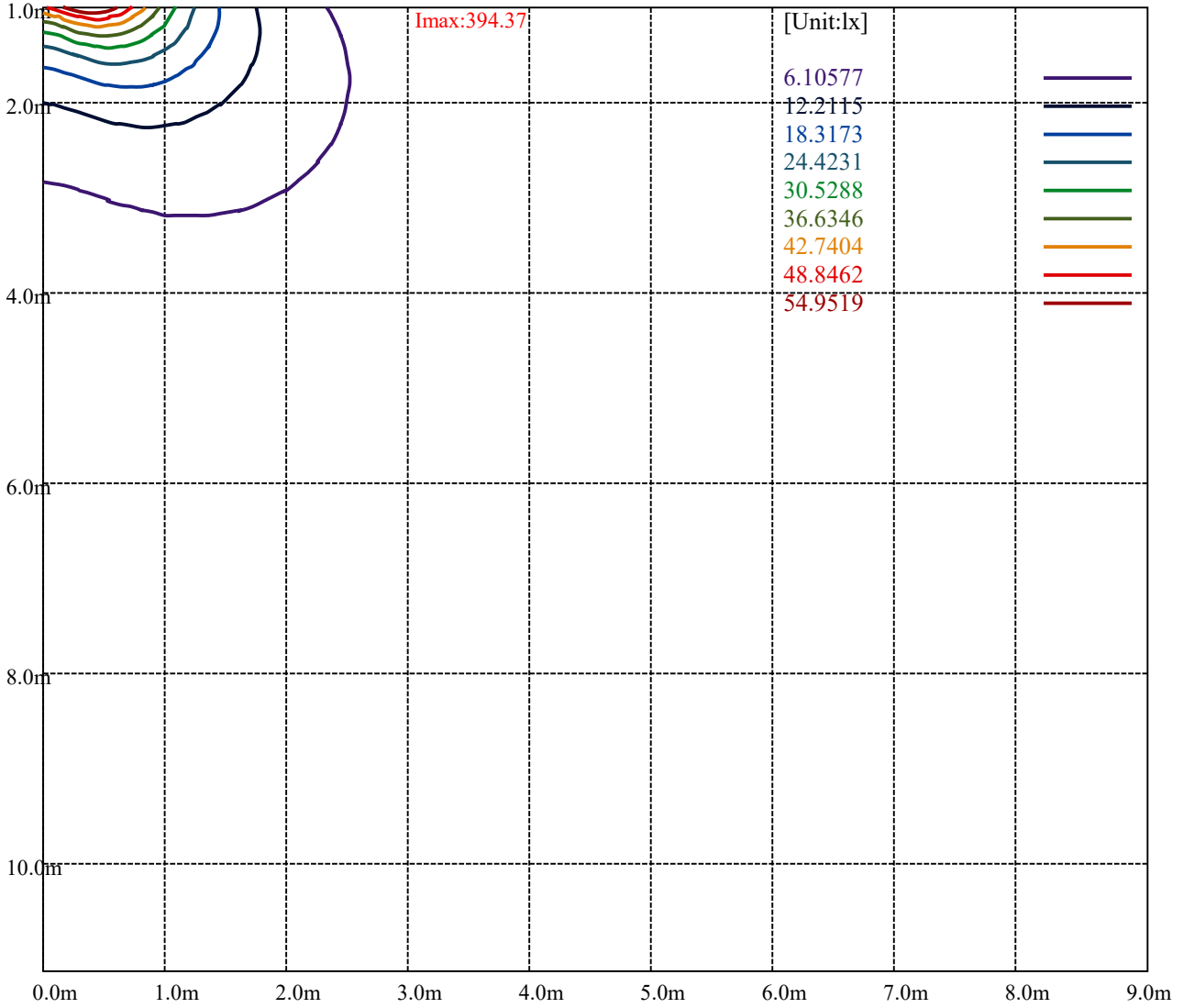
(80%I_{max}) 315.493

(90%I_{max}) 354.929





(10%Emax) 1.4576	—
(20%Emax) 2.915189	—
(30%Emax) 4.372789	—
(40%Emax) 5.830378	—
(50%Emax) 7.287977	—
(60%Emax) 8.745566	—
(70%Emax) 10.20317	—
(80%Emax) 11.66078	—
(90%Emax) 13.11833	—



Luminance Table

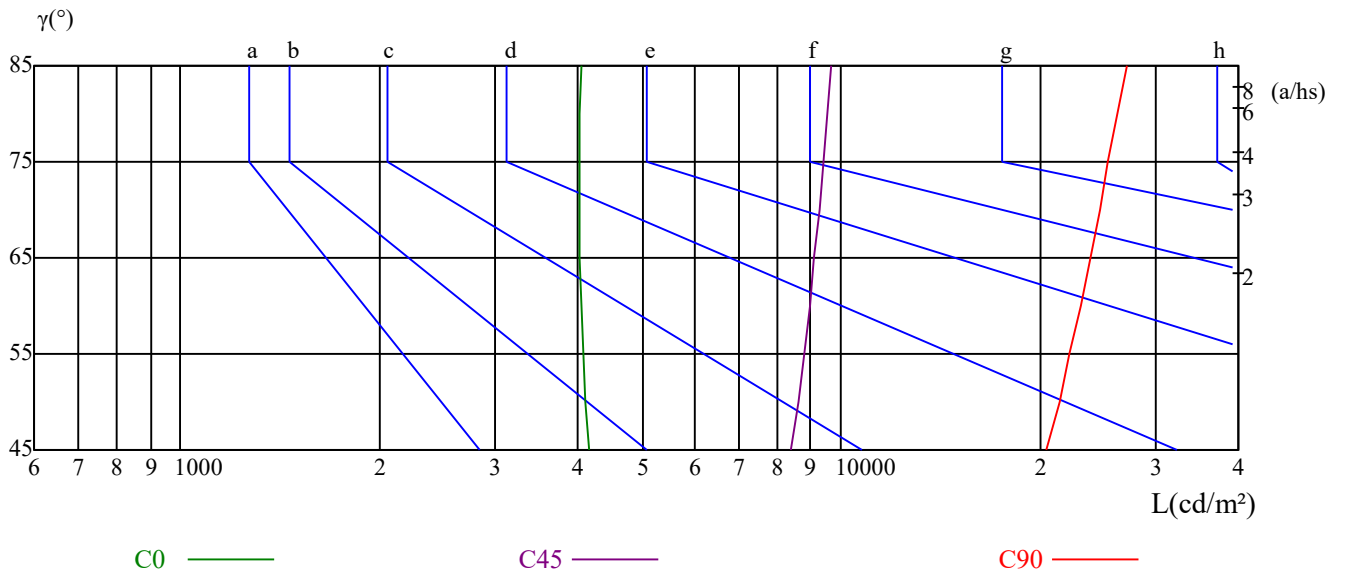
γ	45	50	55	60	65	70	75	80	85
C0	4148	4109	4085	4053	4032	4014	4008	4016	4041
C45	8387	8615	8808	8975	9126	9261	9392	9522	9656
C90	20429	21396	22259	23115	23865	24663	25443	26221	27043

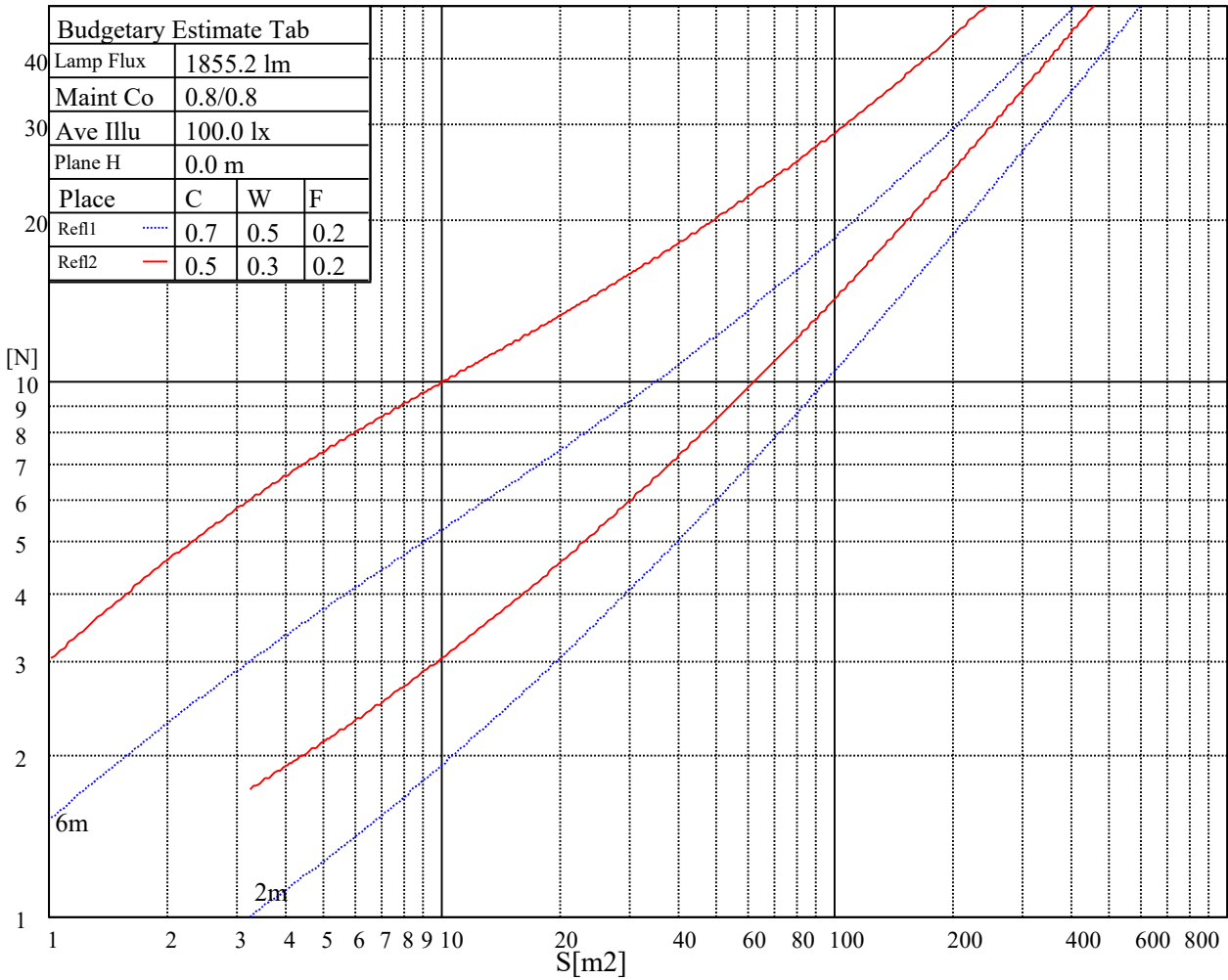
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
52449	75874	73306	87766	129610	125603	262703	394204	383335

Glare Table

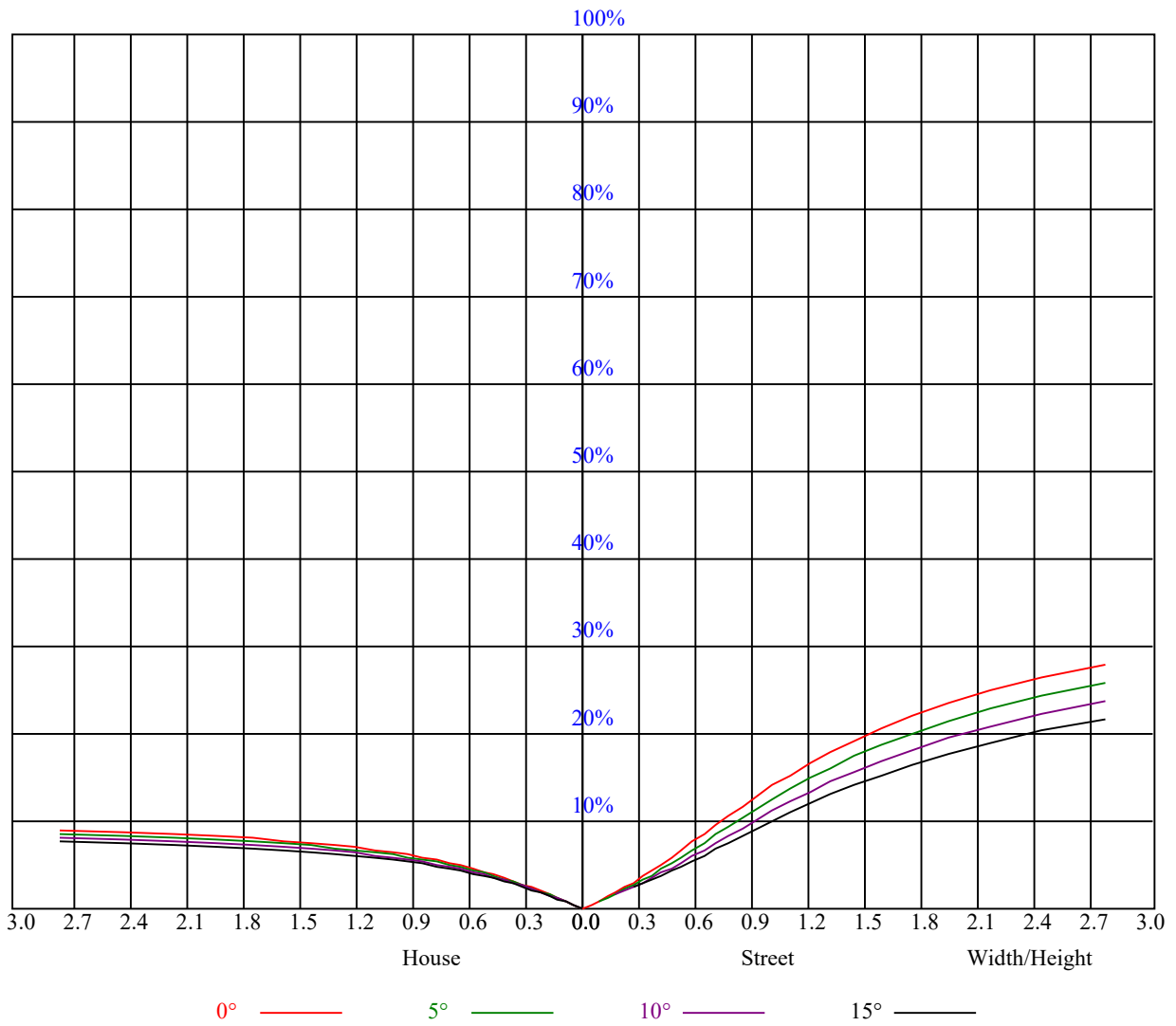
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.07	1.07	1.07	0.99	0.99	0.99	0.84	0.84	0.84	0.70	0.70	0.70	0.57	0.57	0.57	0.51
1	0.86	0.80	0.75	0.79	0.74	0.69	0.66	0.61	0.58	0.53	0.50	0.47	0.42	0.40	0.38	0.32
2	0.72	0.64	0.57	0.66	0.59	0.52	0.54	0.49	0.44	0.44	0.39	0.35	0.34	0.31	0.28	0.23
3	0.62	0.52	0.45	0.56	0.48	0.41	0.46	0.40	0.34	0.37	0.32	0.28	0.28	0.25	0.21	0.17
4	0.53	0.44	0.36	0.49	0.40	0.33	0.40	0.33	0.28	0.32	0.27	0.22	0.24	0.20	0.17	0.13
5	0.47	0.37	0.30	0.43	0.34	0.28	0.35	0.28	0.23	0.28	0.23	0.18	0.21	0.17	0.14	0.10
6	0.42	0.32	0.25	0.38	0.29	0.23	0.31	0.24	0.19	0.25	0.20	0.15	0.19	0.15	0.11	0.08
7	0.37	0.28	0.22	0.34	0.26	0.20	0.28	0.21	0.16	0.22	0.17	0.13	0.17	0.13	0.10	0.07
8	0.33	0.25	0.19	0.31	0.23	0.17	0.25	0.19	0.14	0.20	0.15	0.11	0.16	0.11	0.08	0.06
9	0.30	0.22	0.16	0.28	0.20	0.15	0.23	0.17	0.12	0.18	0.13	0.10	0.14	0.10	0.07	0.05
10	0.28	0.20	0.14	0.25	0.18	0.13	0.21	0.15	0.11	0.17	0.12	0.09	0.13	0.09	0.06	0.04



Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	48.04	47.17	51.41	58.60	67.86	77.21	86.38	95.21	103.09
15.0	48.04	49.01	54.91	66.28	79.15	92.64	105.95	119.88	132.30
30.0	48.04	50.45	61.14	77.72	96.88	116.22	136.90	157.75	177.54
45.0	48.04	52.00	67.15	89.23	113.92	140.51	167.10	193.24	217.12
60.0	48.04	54.50	73.70	99.35	127.10	159.13	188.24	217.63	245.02
75.0	48.04	55.44	78.45	105.03	135.99	168.23	199.55	229.51	255.45
90.0	48.04	56.55	79.52	108.34	138.44	172.67	202.31	232.14	259.87
105.0	48.04	57.01	78.51	108.16	137.99	170.38	201.85	231.59	259.50
120.0	48.04	56.20	76.55	102.31	130.73	159.61	190.41	218.10	244.87
135.0	48.04	50.65	65.71	85.06	106.68	129.39	152.70	175.16	196.11
150.0	48.04	54.19	66.68	81.93	112.89	117.85	135.48	153.49	170.66
165.0	48.04	52.99	61.52	71.97	83.52	95.53	105.89	117.16	128.07
180.0	48.04	53.66	61.46	69.85	78.59	86.21	94.61	101.01	107.24
195.0	48.04	53.06	58.88	65.67	72.90	79.95	86.29	91.93	96.87
210.0	48.04	51.16	55.53	60.43	64.97	70.50	74.42	78.25	81.64
225.0	48.04	49.21	51.28	53.81	56.06	58.04	59.94	61.47	62.37
240.0	48.04	47.67	47.49	47.31	46.58	45.67	44.58	43.13	41.40
255.0	48.04	46.03	44.39	42.29	39.55	36.62	33.24	29.68	26.21
270.0	48.04	45.39	43.10	40.81	38.34	35.59	32.57	29.46	25.99
285.0	48.04	45.29	43.19	41.18	38.89	36.33	33.49	30.47	29.65
300.0	48.04	45.75	44.46	43.91	43.82	43.64	43.55	43.45	43.18
315.0	48.04	42.57	43.33	45.43	48.29	50.90	53.93	56.96	59.48
330.0	48.04	47.21	50.24	55.30	61.08	67.24	73.39	78.72	84.32
345.0	48.04	48.22	53.08	60.42	67.66	75.63	83.61	90.94	97.64
360.0	48.04	47.17	51.41	58.60	67.86	77.21	86.38	95.21	103.09
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	110.27	116.16	121.87	126.11	129.66	132.26	133.99	134.94	135.63
15.0	144.12	155.05	164.65	173.12	179.55	185.54	189.51	192.24	194.45
30.0	195.81	212.74	226.91	240.10	251.25	260.34	267.20	272.19	275.31
45.0	240.37	261.55	280.30	296.70	310.67	321.67	330.32	336.09	339.79
60.0	270.67	293.78	314.98	333.18	348.01	361.20	370.75	377.49	381.58
75.0	283.39	305.13	326.23	344.86	360.56	373.17	382.85	389.61	393.08
90.0	285.30	308.55	328.68	346.70	360.79	372.96	381.93	387.70	390.72
105.0	284.76	308.55	329.13	347.25	362.53	375.07	384.22	390.17	393.64
120.0	269.71	291.81	311.79	328.02	343.33	354.70	363.77	369.64	373.58
135.0	215.29	233.30	249.20	262.74	274.10	283.35	290.34	295.64	298.41
150.0	186.74	201.16	214.20	225.22	234.50	241.94	247.91	252.04	254.43
165.0	136.05	144.02	151.08	156.86	161.63	165.20	167.68	169.69	170.79
180.0	112.35	116.94	120.57	123.26	125.25	126.46	127.24	127.76	127.67
195.0	100.75	104.80	107.10	109.21	110.53	111.33	112.21	112.83	113.00
210.0	84.40	86.63	88.06	89.04	89.39	89.66	89.75	90.46	90.91
225.0	63.27	63.45	63.09	62.46	61.74	60.93	60.66	61.65	61.83
240.0	39.49	37.21	34.94	32.48	30.02	27.93	27.29	27.75	27.75
255.0	22.28	18.72	15.07	11.32	7.95	4.75	3.93	4.02	4.57
270.0	22.33	18.76	15.10	14.73	7.96	4.76	3.84	4.03	4.39
285.0	23.42	19.86	16.38	13.08	9.97	7.05	5.58	6.22	6.86
300.0	42.90	42.35	41.71	40.80	39.70	38.87	38.41	39.60	40.70
315.0	61.75	63.52	64.86	65.62	66.04	66.04	66.38	67.14	68.40
330.0	88.36	92.31	95.43	97.73	99.29	100.30	101.13	102.14	103.06
345.0	103.50	108.64	112.67	116.15	118.45	120.01	121.20	122.02	122.66
360.0	110.27	116.16	121.87	126.11	129.66	132.26	133.99	134.94	135.63

Intensity data(cd)

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	135.98	135.46	135.20	133.99	132.00	129.40	126.03	121.70	116.25
15.0	195.06	194.18	192.07	188.28	183.52	177.70	170.56	162.10	152.31
30.0	275.93	274.95	271.48	266.13	259.36	250.00	238.77	225.58	210.34
45.0	341.41	339.88	336.18	329.78	321.04	309.59	295.71	279.22	260.29
60.0	383.22	381.49	376.67	369.75	362.02	347.83	334.00	313.89	294.15
75.0	394.27	392.44	388.60	381.94	371.98	360.93	344.86	326.04	304.22
90.0	391.26	389.98	386.32	379.46	369.94	357.50	341.94	323.74	302.69
105.0	394.47	392.00	387.79	380.10	369.03	355.94	339.57	320.08	298.02
120.0	373.13	372.12	367.63	360.38	350.30	337.28	321.24	303.08	281.72
135.0	299.09	297.07	293.28	287.31	278.89	268.71	255.67	240.28	222.61
150.0	254.52	252.69	249.20	244.14	237.16	227.89	216.68	203.36	188.66
165.0	170.43	169.42	167.22	164.29	160.25	155.03	148.43	140.54	131.74
180.0	127.50	126.98	125.68	124.04	121.44	117.80	113.30	107.76	101.44
195.0	112.65	112.03	110.62	108.86	106.39	103.39	98.81	93.96	88.23
210.0	90.55	89.57	88.41	86.63	84.40	81.28	77.54	73.35	68.89
225.0	61.56	60.30	58.76	57.50	55.97	53.90	53.27	48.22	44.88
240.0	27.39	26.48	26.29	24.20	23.47	22.75	22.02	21.11	20.38
255.0	4.57	4.66	4.38	4.20	4.93	5.94	6.94	8.13	9.32
270.0	4.39	4.48	4.39	4.03	4.76	5.49	5.95	6.59	8.42
285.0	7.32	7.50	7.69	7.69	8.51	9.52	10.61	11.62	12.72
300.0	41.53	41.44	41.07	40.34	40.43	40.15	39.79	38.78	37.04
315.0	69.07	69.16	68.31	67.73	66.88	65.54	63.60	60.57	56.45
330.0	103.52	103.43	102.60	101.59	99.75	97.27	93.69	89.83	85.15
345.0	122.94	122.85	122.39	121.20	119.00	116.70	113.50	109.65	104.15
360.0	135.98	135.46	135.20	133.99	132.00	129.40	126.03	121.70	116.25

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	109.67	102.48	94.00	85.00	74.09	61.46	46.05	32.72	16.79
15.0	140.85	129.57	116.88	103.04	88.50	74.04	56.59	37.73	19.22
30.0	193.40	175.04	156.42	133.96	113.81	92.16	70.94	45.28	22.64
45.0	240.37	217.03	192.06	165.57	137.99	112.12	84.18	55.34	26.50
60.0	270.40	244.29	216.17	188.15	157.22	125.19	94.53	63.32	27.39
75.0	280.01	255.08	226.49	195.44	163.11	131.15	98.91	65.48	29.59
90.0	278.81	252.64	223.91	194.72	162.42	129.29	97.27	66.80	29.28
105.0	273.50	247.61	218.23	187.49	155.37	122.43	93.33	62.31	28.27
120.0	257.61	231.21	204.16	173.73	144.21	113.50	83.70	54.27	26.68
135.0	203.77	181.81	160.02	136.46	112.82	89.52	66.30	42.65	17.92
150.0	171.95	154.13	136.49	117.39	97.73	77.62	57.13	36.19	15.25
165.0	121.84	111.11	99.47	86.91	73.89	60.60	43.82	28.42	10.91
180.0	94.35	86.99	78.42	68.47	56.69	43.71	30.73	15.41	3.90
195.0	81.89	74.39	66.90	57.47	47.86	45.22	25.03	11.72	2.64
210.0	63.19	60.96	49.73	43.23	36.19	28.70	17.56	7.93	1.25
225.0	41.46	37.49	32.36	28.57	24.88	18.75	10.45	3.70	0.72
240.0	19.74	19.11	17.38	15.56	13.47	9.28	4.19	1.18	0.82
255.0	10.41	10.78	10.23	9.77	8.31	4.02	1.10	0.73	1.00
270.0	9.97	10.25	10.16	10.52	8.69	3.93	1.56	1.19	1.56
285.0	13.27	12.63	12.72	12.81	12.26	9.70	5.49	3.48	2.56
300.0	34.20	30.90	28.97	26.40	23.84	18.06	13.48	7.79	4.03
315.0	52.92	48.12	43.41	39.21	33.40	26.75	19.85	12.03	5.38
330.0	79.64	73.94	67.42	58.79	50.70	39.77	29.67	18.19	8.17
345.0	97.73	90.58	82.23	72.24	62.43	49.05	37.04	22.28	10.54
360.0	109.67	102.48	94.00	85.00	74.09	61.46	46.05	32.72	16.79

Intensity data(cd)

C/γ(°)	180.0
0.0	3.03
15.0	4.67
30.0	5.26
45.0	5.05
60.0	5.46
75.0	6.03
90.0	5.95
105.0	5.40
120.0	5.41
135.0	4.37
150.0	4.23
165.0	2.75
180.0	0.00
195.0	0.00
210.0	0.00
225.0	0.00
240.0	0.00
255.0	0.00
270.0	0.00
285.0	0.00
300.0	0.00
315.0	0.00
330.0	0.00
345.0	0.00
360.0	3.03